FIG. 1

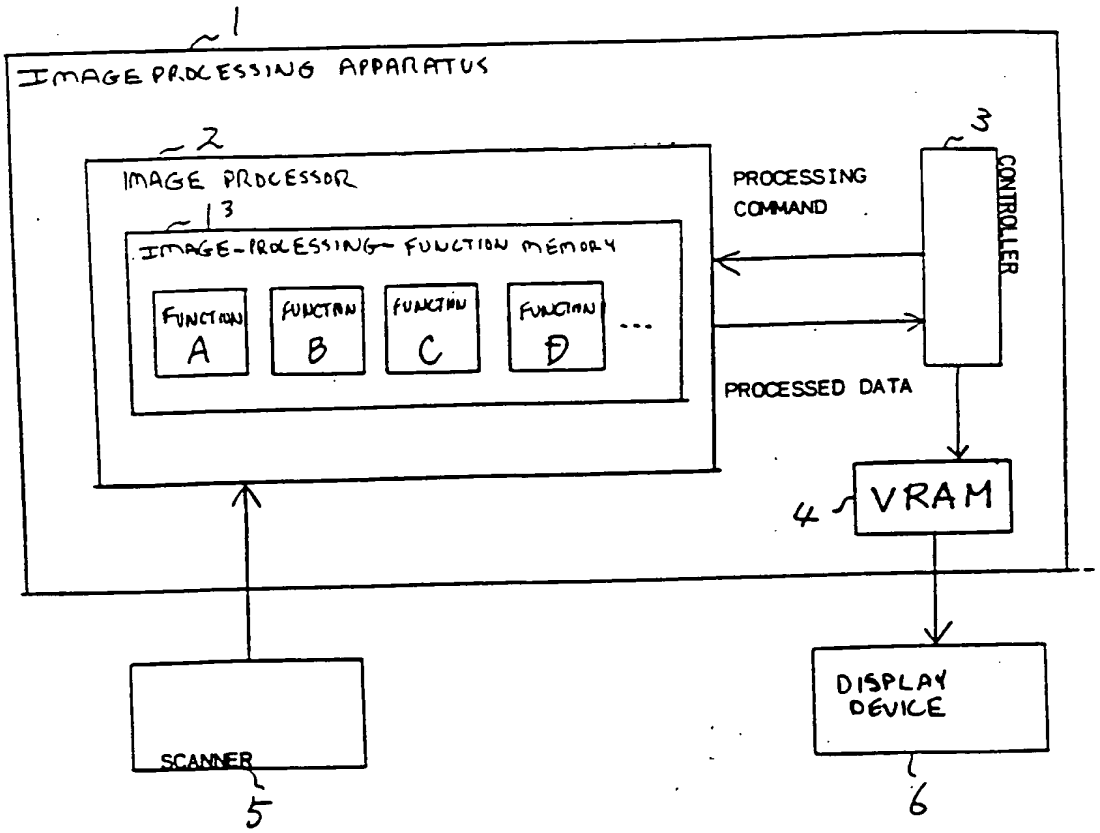

1
IMAGE PROCESSING APPARATUS
2
IMAGE PROCESSOR
3
IMAGE-PROCESSING FUNCTION MEMORY
FUNCTION A
FUNCTION B
FUNCTION C
FUNCTION D
...
PROCESSING COMMAND
3
CONTROLLER
PROCESSED DATA
4
VRAM
SCANNER
5
DISPLAY DEVICE
6

FIG. 2

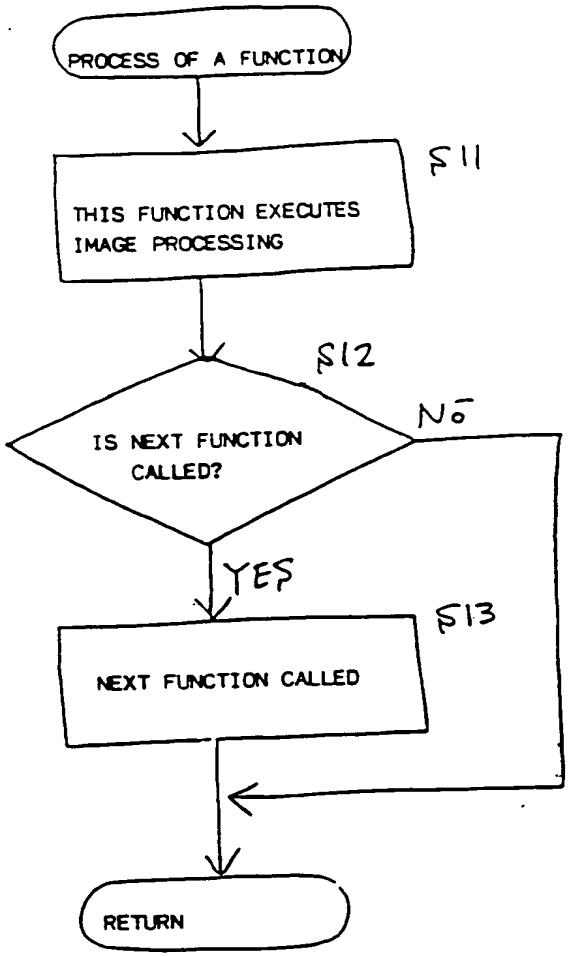

PROCESS OF A FUNCTION
THIS FUNCTION EXECUTES IMAGE PROCESSING
S11
S12
IS NEXT FUNCTION CALLED?
NO
YES
S13
NEXT FUNCTION CALLED
RETURN

FIG. 3

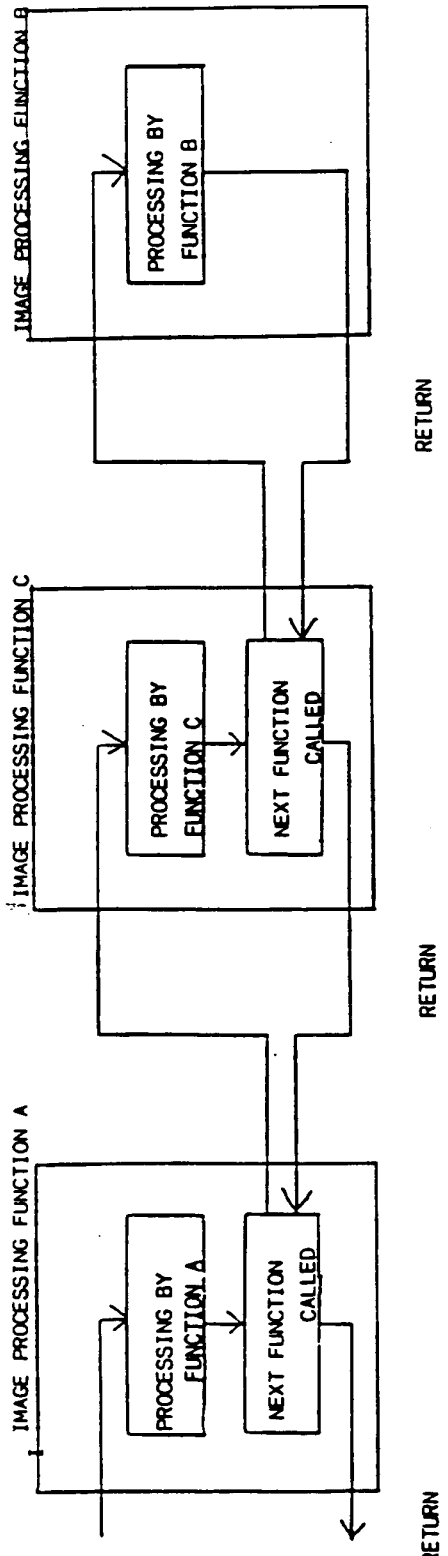


IMAGE PROCESSING FUNCTION A
PROCESSING BY FUNCTION A
NEXT FUNCTION CALLED
RETURN
IMAGE PROCESSING FUNCTION C
PROCESSING BY FUNCTION C
NEXT FUNCTION CALLED
RETURN
IMAGE PROCESSING FUNCTION B
PROCESSING BY FUNCTION B
RETURN

FIG. 4

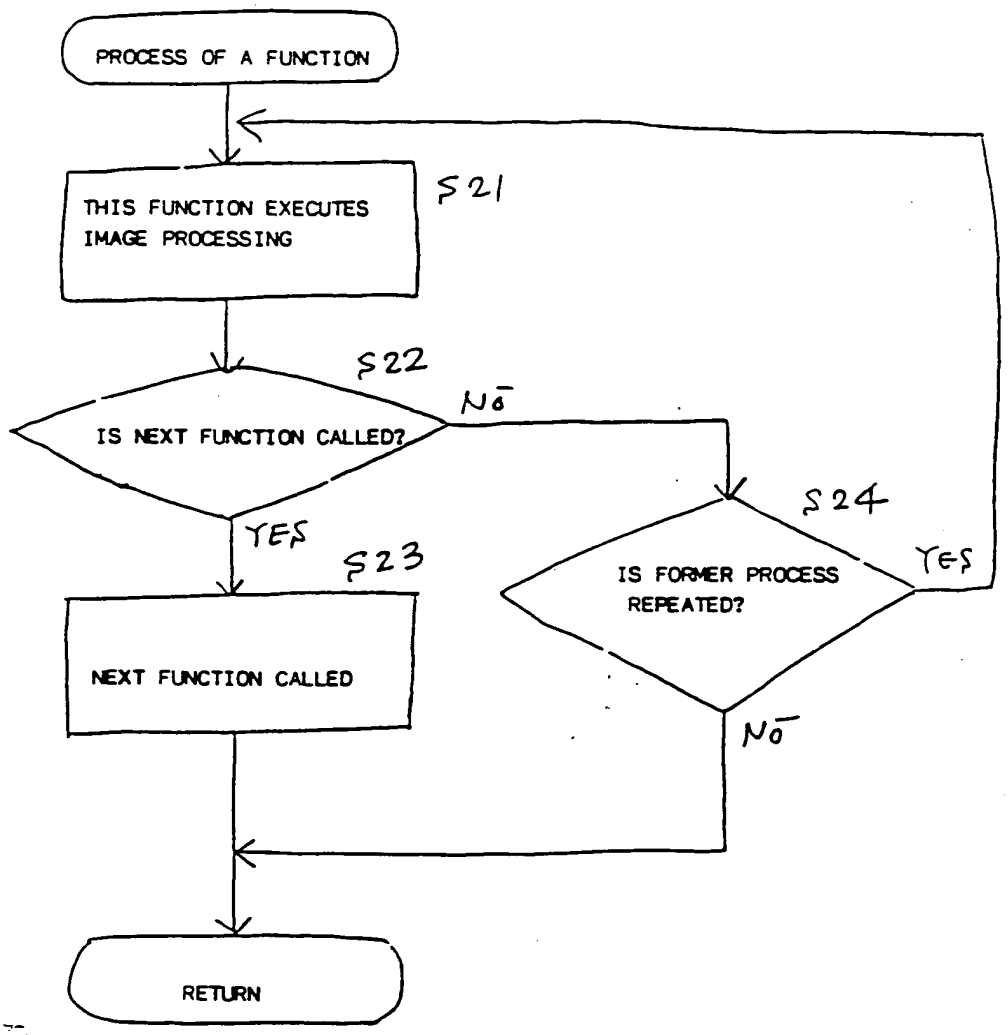

PROCESS OF A FUNCTION
THIS FUNCTION EXECUTES IMAGE PROCESSING
S21
S22
IS NEXT FUNCTION CALLED?
NO
YES
S23
NEXT FUNCTION CALLED
S24
IS FORMER PROCESS REPEATED?
YES
NO
RETURN

FIG. 5

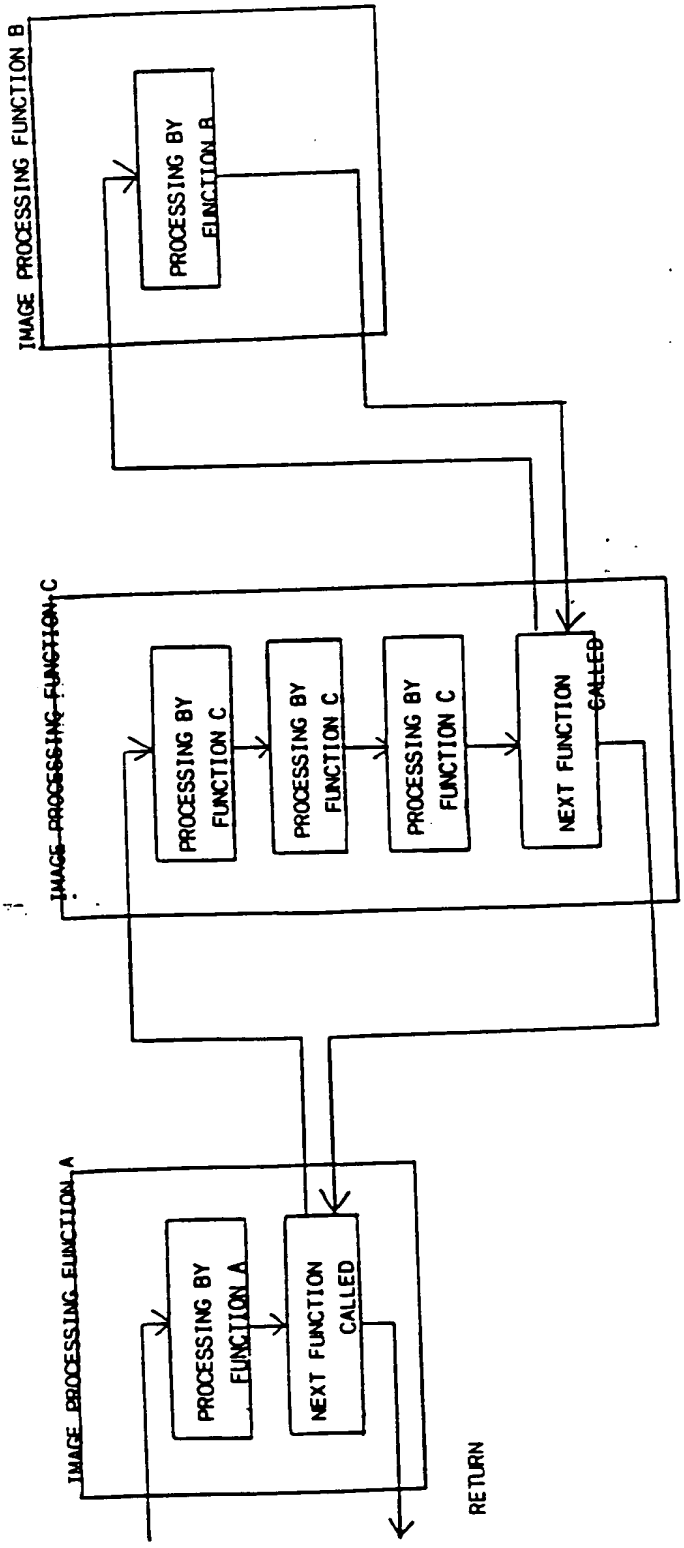
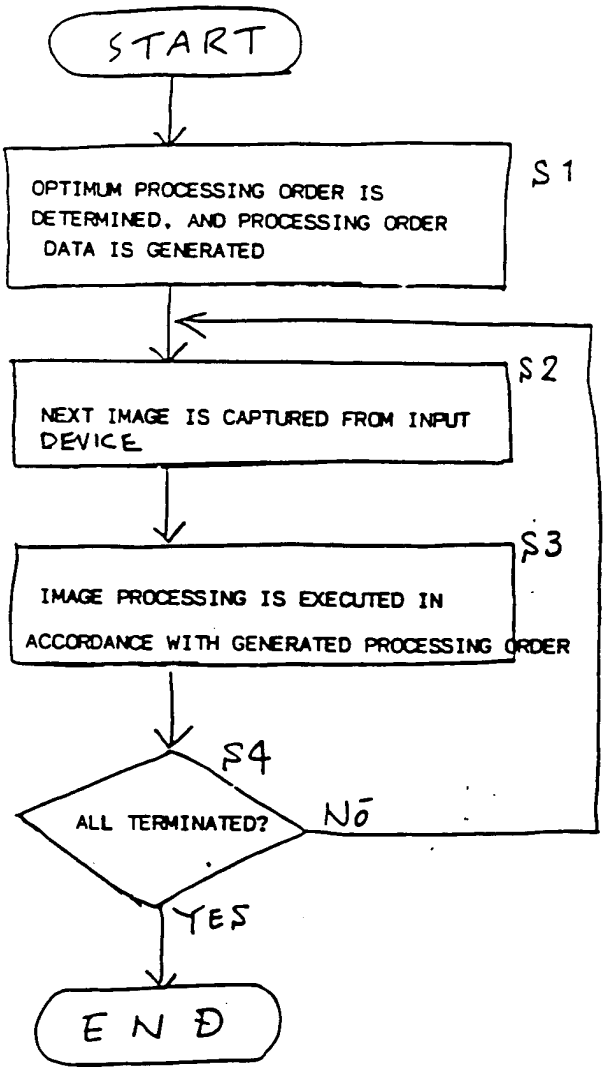


IMAGE PROCESSING FUNCTION B
PROCESSING BY FUNCTION B
IMAGE PROCESSING FUNCTION C
PROCESSING BY FUNCTION C
PROCESSING BY FUNCTION C
PROCESSING BY FUNCTION C
NEXT FUNCTION CALLED
IMAGE PROCESSING FUNCTION A
PROCESSING BY FUNCTION A
NEXT FUNCTION CALLED
RETURN

FIG. 6


START
OPTIMUM PROCESSING ORDER IS DETERMINED, AND PROCESSING ORDER DATA IS GENERATED
S1
NEXT IMAGE IS CAPTURED FROM INPUT DEVICE
S2
IMAGE PROCESSING IS EXECUTED IN ACCORDANCE WITH GENERATED PROCESSING ORDER
S3
ALL TERMINATED?
S4
NO
YES
END

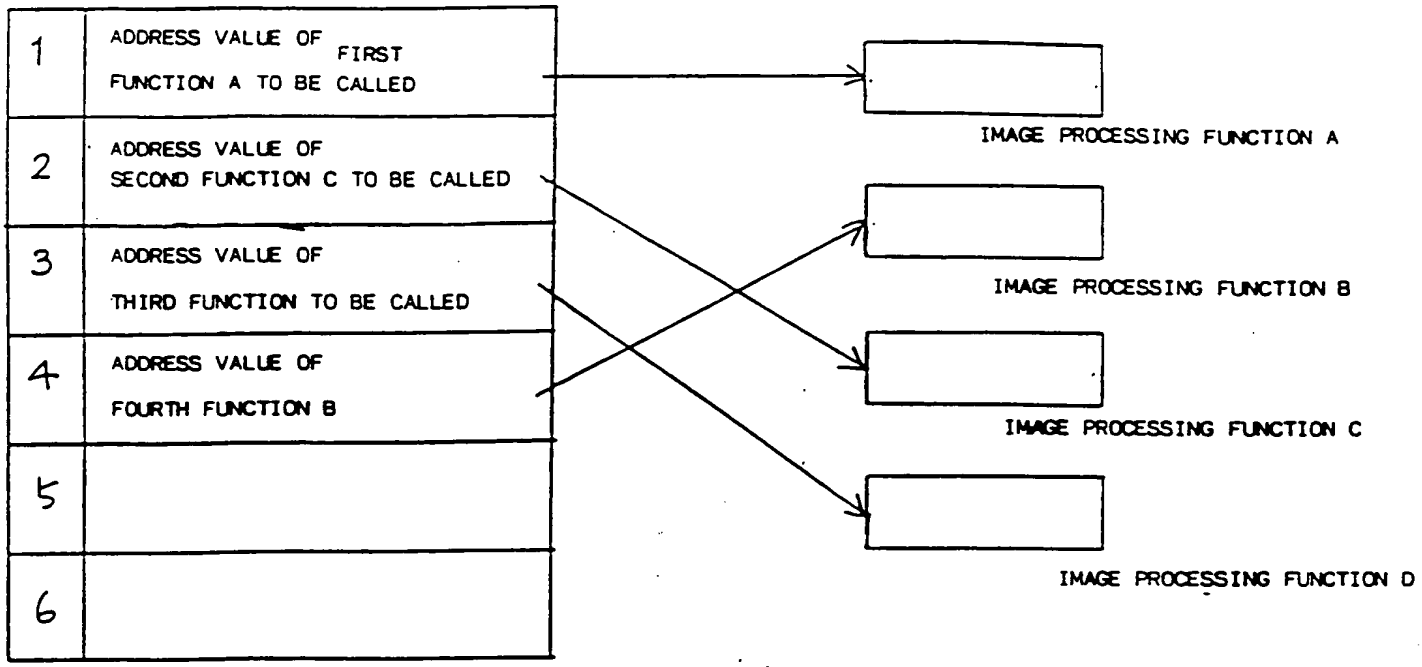
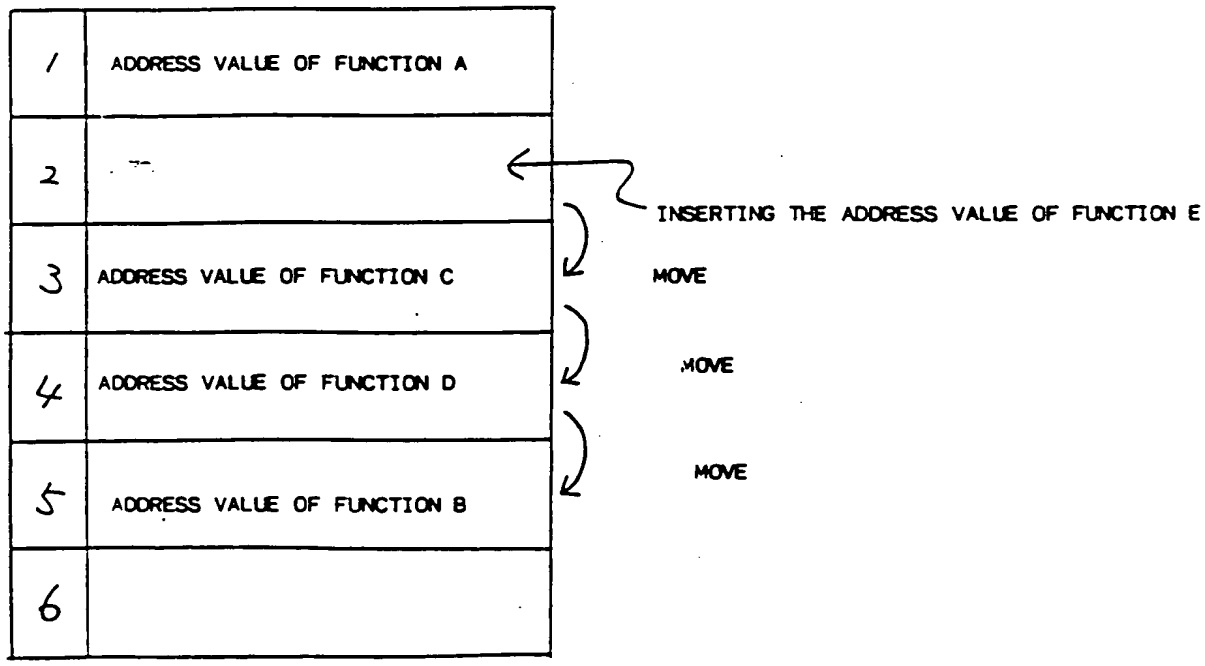

1
ADDRESS VALUE OF FIRST FUNCTION A TO BE CALLED
2
ADDRESS VALUE OF SECOND FUNCTION C TO BE CALLED
3
ADDRESS VALUE OF THIRD FUNCTION TO BE CALLED
4
ADDRESS VALUE OF FOURTH FUNCTION B
5
6
IMAGE PROCESSING FUNCTION A
IMAGE PROCESSING FUNCTION B
IMAGE PROCESSING FUNCTION C
IMAGE PROCESSING FUNCTION D

FIG. 8


1
ADDRESS VALUE OF FUNCTION A
2
INSERTING THE ADDRESS VALUE OF FUNCTION E
3
ADDRESS VALUE OF FUNCTION C
MOVE
4
ADDRESS VALUE OF FUNCTION D
MOVE
5
ADDRESS VALUE OF FUNCTION B
MOVE
6